

ABSTRACT OF THE DISCLOSURE

A motor vehicle bumper system includes a bumper unit having pairs of hydraulic cylinders controlled to move a bumper between an extended position and a retracted position, a pump controlled to pump the oil from an oil tank to the hydraulic cylinders to move the bumper between the extended position and the retracted position, a pressure-setup pipe unit connected between the hydraulic cylinders, the pump and the oil tank and equipped with a decompression valve and controlled by a direction control valve to let the oil be alternatively pumped to the upper oil chambers and lower oil chambers of the hydraulic cylinders to retract or extend out the bumper, and a pressure-relief pipe unit using a relief valve and an accumulator to release pressure from the hydraulic cylinders and a hydraulic oil pressure sensor to control the explosion time of the air bag of the motor vehicle.